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Subject: Response to USPTO Non-final Rejection on Application 10/042,087

Application/Control No. 10/042,087

Art Unit: 1754

Examiner: Ngoc-Yen M. Nguyen

Mailed Date: Dec. 16, 2004

Title: Method of producing quantum-dot powder and film via templating by a 2-d ordered array of air bubbles in a polymer

Inventors: Wen-Chiang Huang

Filing date: 1/10/2002

In responses to the non-final rejection mailed on Dec.16, 2004, we have the following response:

The officer rejected Claim 1-6, 9 13-22 as being unpatentable over Norris et al. (6,139,626). Norris et al. proposed a method for producing a quantum-dot solid that also involves the utilization of a reticulated template. The method is comprised of steps including filling the pores in a template with colloidal nanocrystals.

One major different from ours method is that Norris method required the use of the pre-fabricated colloidal nanocrystals sufficient to fill in the pores in a template. The preparation of nanocrystals is itself a complicate process and is not obvious to one skilled in the art. The method proposed by Morris further requires the nanocrystals are small enough to fill in the pores in the template. This requirement is eliminated in our invention.

Secondly, the work of Norris, et al. was limited to the formation of bulk 3-D patterned materials, not thin-film composite or quantum particles.

Rcgards,



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